

AMENDMENTS TO THE CLAIMS

Claims 1-31 (canceled)

Claim 32 (previously presented): A vacuum processing system comprising:

a load port on which a plurality of cassette containers is to be arranged in a first direction, each of the cassette containers holding a plurality of objects to be processed;

a common transfer chamber having first and second sides which are opposite to each other, the load port being provided on the first side of the common transfer chamber;

a plurality of process units provided on the second side of the common transfer chamber along the first direction, each of the process units including a process chamber in which an object is processed and a transfer section positioned between the process chamber and the common transfer chamber, the respective process units extending from the common transfer chamber in a second direction;

a first transfer device provided in the common transfer chamber to transfer an object between any of the transfer sections and the common transfer chamber; and

a plurality of second transfer devices each of which is provided in each of the transfer sections to transfer an object between the process chamber and the transfer section of the same process unit.

Claim 33 (previously presented): The vacuum processing system according to claim 32, in which the first transfer device is movable within the common transfer chamber in the first direction.

Claim 34 (currently amended): The vacuum processing system according to claim 32, in which the each transfer section includes first and second buffers provided therein and selectively supporting an object ~~therein~~ in the transfer section.

Claim 35 (currently amended): The vacuum processing system according to claim 32, which further comprises an auxiliary load port on which at least one cassette container is arranged and removably attached to the common transfer chamber aligned in the load port, and at least one auxiliary process unit removably attached to the common transfer chamber, the auxiliary process unit including a process chamber in which an object is processed and a transfer section positioned between the process chamber and the common transfer chamber, the process chamber and transfer section of the auxiliary process unit being arranged on one straight line.

Claim 36 (currently amended): The vacuum processing system according to claim 35, in which the common transfer chamber includes first and second sections detachably arranged in the first direction, the first section is provided with said plurality of process units and the load port, and the second section is provided with the auxiliary process unit and the auxiliary load port.

Claim 37 (previously presented): The vacuum processing system according to claim 36, in which the first transfer device is provided in the first section, and which further includes an auxiliary transfer device movably provided in the second section, for transferring an object between the second section and the transfer section of the auxiliary process unit.

Claim 38 (previously presented): The vacuum processing system according to claim 37, in which the auxiliary transfer device is also movable in the first section, for transferring an object between the first section and the transfer section of the process unit.

Claim 39 (previously presented): The vacuum processing system according to claim 32, in which at least one of the second transfer devices includes a supporting portion on which an object is mounted, and the supporting portion is only movable in the second direction during the transferring of the object.

Claim 40 (currently amended): A vacuum processing system comprising:

- an elongated load port on which a plurality of cassette containers are to be arranged in ~~its~~ an elongated line of the load port, each of the cassette containers holding a plurality of objects to be processed;
- an elongated common transfer chamber extending along the load port;
- a plurality of process units, each of the process units including a process chamber in which an object is processed and a transfer section positioned between the process chamber and the common transfer chamber, the process chamber and transfer section of each process unit being arranged on one straight line, the respective process units extending from the common transfer chamber so that the straight line is substantially normal to the elongated line;
- a first transfer device provided in the common transfer chamber to transfer an object between any of the transfer sections and the common transfer chamber; and
- a plurality of second transfer devices each of which is provided in each of the transfer sections to transfer an object to be processed between the process chamber and the transfer section of the same process unit.

Claim 41 (previously presented): The vacuum processing system according to claim 40, in which the first transfer device is movable within the common transfer chamber along the elongated line.

Claim 42 (previously presented): The vacuum processing system according to claim 40, in which the transfer section of each process unit includes a vacuum transfer chamber capable of evacuation.

Claim 43 (currently amended): The vacuum processing system according to claim 40, in which each of the transfer sections includes a load lock chamber and a transfer chamber, the transfer chamber being positioned between the process chamber and the load lock chamber, and the load lock chamber being ~~poisoned~~ positioned between the transfer chamber and the common transfer chamber.

Claim 44 (previously presented): The vacuum processing system according to claim 43, in which the load lock chamber includes a vacuum chamber capable of evacuation and a table which is housed in the vacuum chamber and on which the object is mounted.

Claim 45 (previously presented): The vacuum processing system according to claim 43, in which the load lock chamber has an inner space which is changeable between a vacuum state and an atmosphere state.

Claim 46 (previously presented): The vacuum processing system according to claim 40, in which said plurality of process units includes at least two process units positioned to be adjacent, the same process gas is supplied into the process chambers of the at least two process units to process the objects therein, and which further comprises a transfer container housing the transfer chambers of the at least two process units.

Claim 47 (currently amended): The vacuum processing system according to claim 40, in which ~~the~~ each transfer section includes first and second buffers provided therein and selectively supporting an object therein ~~in the transfer section~~.

Claim 48 (previously presented): The vacuum processing system according to claim 40, in which said plurality of process units include at least two process units positioned to be adjacent, and which further comprises an intermediate path chamber interposed between the transfer sections of the at least two process units through gate valves and being capable of evacuation, the second transfer devices provided in the transfer sections of the at least two process units transferring the object between the transfer sections and the intermediate path chamber through the gate valves.

Claim 49 (previously presented): The vacuum processing system according to claim 48, in which one of the second transfer devices provided in the transfer sections of the at least two transfer units transfers the object to the intermediate path chamber from one of the transfer sections, and the other second transfer device transfers the object to the other transfer section from the intermediate path chamber.

Claim 50 (currently amended): The vacuum processing system according to claim 40, in which ~~the~~ each transfer section has an inner space which is changeable between a vacuum state and an atmosphere state.

Claim 51 (canceled)

Claim 52 (previously presented): A vacuum processing system comprising:

a load port on which a plurality of cassette containers are to be arranged, each of the cassette containers holding a plurality of objects to be processed;

a common transfer chamber having an internal space therein;

a plurality of process units linearly extended from the common transfer chamber, each of the process units including a process chamber in which an object is processed and a transfer chamber having an internal space to be evacuated and positioned between the process chamber and the common transfer chamber;

a first transfer device provided in the internal space of the common transfer chamber to transfer an object between the internal space of any transfer chamber and the internal space of the common transfer chamber; and

a plurality of second transfer devices each of which is provided in the internal space of each transfer chamber to transfer an object between the process chamber and the transfer chamber of the same process unit.

Claim 53 (currently amended): The vacuum processing system according to claim 52, in which ~~the~~ each transfer chamber includes first and second buffers provided therein and selectively supporting an object therein ~~in the transfer chamber~~.

Claims 54-59 (canceled)

Claim 60 (currently amended): A vacuum processing system comprising:

a load port on which a plurality of cassette containers are to be arranged, each of the cassette containers holding a plurality of objects to be processed;

a common transfer chamber having an internal space therein;

a plurality of process units extended from the common transfer unit, each of the process units including a process chamber in which an object is processed and a transfer chamber positioned between the process chamber and the common transfer chamber, ~~the~~ each transfer chamber having a buffer mechanism therein to support the object;

a first transfer device provided in the common transfer chamber to transfer an object between any of the transfer chambers and the common transfer chamber; and

a plurality of second transfer devices each of which is provided in each of the transfer chambers to transfer an object between the process chamber and the transfer chamber of the same process unit.

Claim 61 (currently amended): The vacuum processing system according to claim 60, in which ~~the~~ each transfer chamber has an inner space which is changeable between a vacuum state and an atmosphere state.

Claims 62-66 (canceled)